

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/525,062
Source: PCR/10
Date Processed by STIC: 3/4/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 03/04/2005

PATENT APPLICATION: US/10/525,062

TIME: 12:52:37

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\03042005\J525062.raw

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3 <110> APPLICANT: Chiron Corporation
5 <120> TITLE OF INVENTION: RANDOM TRANSPOSON INSERTION IN STAPHYLOCOCCUS AUREUS AND USE
THEREOF TO
6 IDENTIFY ESSENTIAL GENES
W--> 7 <130> FILE REFERENCE: 002441.00063
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/525,062
C--> 10 <141> CURRENT FILING DATE: 2005-02-18
12 <150> PRIOR APPLICATION NUMBER: US 60/404,406
13 <151> PRIOR FILING DATE: 2002-08-20
15 <160> NUMBER OF SEQ ID NOS: 13
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 31
21 <212> TYPE: DNA
22 <213> ORGANISM: artificial sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: primer Cm194-HindF
27 <400> SEQUENCE: 1
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32 <211> LENGTH: 31
33 <212> TYPE: DNA
34 <213> ORGANISM: artificial sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: primer Cm194-KpnR
39 <400> SEQUENCE: 2
40 taacgggtac cgtagtgac attagaaaac c 31
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 30
45 <212> TYPE: DNA
46 <213> ORGANISM: artificial sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: primer Erm917-HindF
51 <400> SEQUENCE: 3
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55 <210> SEQ ID NO: 4
56 <211> LENGTH: 30
57 <212> TYPE: DNA
58 <213> ORGANISM: artificial sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: primer Erm917-KpnR
63 <400> SEQUENCE: 4
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67 <210> SEQ ID NO: 5

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68 <211> LENGTH: 20
69 <212> TYPE: DNA
70 <213> ORGANISM: artificial sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: primer TNErm-1R
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76 ctgtttcaaa acagtagatg                                     20
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 19
81 <212> TYPE: DNA
82 <213> ORGANISM: artificial sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: primer TNCm-1R2
87 <400> SEQUENCE: 6
88 gataggccta atgactggc                                     19
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 29
93 <212> TYPE: DNA
94 <213> ORGANISM: artificial sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: primer arb-8
99 <220> FEATURE:
100 <221> NAME/KEY: misc_feature
101 <222> LOCATION: (1)..(29)
102 <223> OTHER INFORMATION: n = g, a, t, or c
105 <400> SEQUENCE: 7
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115 <223> OTHER INFORMATION: primer TNErm-2R
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124 <213> ORGANISM: artificial sequence
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127 <223> OTHER INFORMATION: primer TNCm-2R2
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136 <213> ORGANISM: artificial sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: pirmer arb-tail

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148 <213> ORGANISM: artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: plasmid pMOD
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158 ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc    180
160 accatatgcg gtgtgaaata ccgcacagat gcgtaaggag aaaataccgc atcagggcgc    240
162 attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcggggc tcttcgctat    300
164 tacgccagct gtctcttata cacatctcaa ccatcatcga tgaattcgag ctcggtaccc    360
166 ggggatcctc tagagtcgac ctgcaggcat gcaagcttca ggggtgagat gtgtataaga    420
168 gacagctgca ttaatgaatc ggccaacgcg cggggagagg cggtttgcgt attgggcgct    480
170 cttccgcttc ctgcgtcact gactcgctgc gtcgggtcgt tcggctgcgg cgagcggtat    540
172 cagctcactc aaaggcggta atacggttat ccacagaatc aggggataac gcaggaaaga    600
174 acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa aaaggccgcg ttgctggcgt    660
176 ttttccatag gctccgcccc cctgacgagc atcacaaaaa tcgacgctca agtcagagggt    720
178 ggcgaaaccc gacaggacta taaagatacc aggcgtttcc ccctggaagc tccctcgtgc    780
180 gctctcctgt tccgaccctg ccgcttaccg gatacctgtc cgcctttctc ccttcgggaa    840
182 gcgtggcgct ttctcatagc tcacgctgta ggtatctcag ttcgggtgtag gtcgttcgct    900
184 ccaagctggg ctgtgtgcac gaaccccccg ttcagcccca ccgctgcgcc ttatccggta    960
186 actatcgtct tgagtccaac ccggttaagac acgacttatc gccactggca gcagccactg   1020
188 gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagttcttg aagtgggtggc   1080
190 ctaactacgg ctacactaga aggacagtat ttggtatctg cgtctcgtcg aagccagtta   1140
192 ccttcggaaa aagagttggg agctcttgat ccggcaaaaa aaccaccgct ggtagcgggtg   1200
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200 aatcaatcta aagtatatat gagtaaaact ggtctgacag ttaccaatgc ttaatcagtg   1440
202 aggcacctat ctcagcgatc tgtctatttc gttcatccat agttgcctga ctccccgtcg   1500
204 tgtagataac tacgatacgg gagggcctac catctggccc cagtgcgca atgataccgc   1560
206 gagaccacg ctcaccggtc ccagatttat cagcaataaa ccagccagcc ggaagggcgc   1620
208 agcgcagaag tggctctgca actttatccg cctccatcca gtctattaat tgttgccggg   1680
210 aagctagagt aagtagttcg ccagttaata gtttgcgcaa cgttggtgcc attgctacag   1740
212 gcacgtgggt gtcacgctcg tcggttggtg tggcttcatt cagctccggt tcccaacgat   1800
214 caaggcgagt tacatgatcc cccatgttgt gcaaaaaaagc ggttagctcc ttcggtcctc   1860
216 cgatcggtgt cagaagtaag ttggccgcag tgttatcact catgggtatg gcagcactgc   1920
218 ataattctct tactgtcatg ccatccgtaa gatgcttttc tgtgactggg gagtactcaa   1980
220 ccaagtcatt ctgagaatag tgtatgcggc gaccgagttg ctcttgcccg gcgtcaatac   2040
222 gggataatac cgcgccacat agcagaactt taaaagtgtc catcattgga aaacgttctt   2100
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228 caggaaggca aaatgccgca aaaaagggaa taaggcgac acggaaatgt tgaatactca   2280
230 tactcttctt ttttcaatat tattgaagca tttatcaggg ttattgtctc atgagcggat   2340
232 acatatttga atgtatttag aaaaataaac aaataggggt tccgcgcaca tttccccgaa   2400

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234 aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc 2460
236 gtatcacgag 2470
239 <210> SEQ ID NO: 12
240 <211> LENGTH: 3685
241 <212> TYPE: DNA
242 <213> ORGANISM: artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: plasmid pMOD (Erm1)
247 <400> SEQUENCE: 12
248 tcgcgcgttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacgggtca 60
250 cagcttgtct gtaagcggat gccgggagca gacaagcccg tcagggcgcg tcagcgggtg 120
252 ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc 180
254 accatatgcg gtgtgaaata ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc 240
256 attcgccatt caggctgcgc aactggtggg aaggcgatc ggtgcgggccc tcttcgctat 300
258 tacgccagct gtctcttata cacatctcaa ccatcatcga tgaattcgag ctcggtaccg 360
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262 atcgatacaa attccccgta ggcgctaggg acctctttag ctccctggaa gctgtcagta 480
264 gtatacctaa taatttatct acattccctt tagtaacgtg taactttcca aattttacaaa 540
266 agcgactcat agaattatatt cctcccggtt aataatagat aactattaaa aatagacaat 600
268 acttgctcat aagtaacggg acttaaatgt tttactttgg cgtgtttcat tgcttggtgaa 660
270 actgattttt agtaaacagt tgacgatatt ctcgattgac ccattttgaa acaaagtacg 720
272 tatatagctt ccaatattta tctggaacat ctgtggtatg gcgggtaagt tttattaaga 780
274 cactgtttac ttttggttta ggatgaaagc attccgctgg cagcttaagc aattgctgaa 840
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282 taggggaattg aaactgtaga atatcttggg gaattaaagt gacacgaatg ttcagtttta 1080
284 atttttctga cgataagttg aatagatgac tgtctaattc aatagacgtt acctgtttac 1140
286 ttatttttagc cagtttcgtc gttaaatgcc ctttacctgt tccaatttcg taaacgggat 1200
288 cggtttcttt taaattcaat tgttttatta tttggttgag taccttttca ttcgttaaaa 1260
290 agttttgaga atattttata tttttgttca tgtaatcact cctgaagtga tacatctata 1320
292 aataaatata gaagttaaac gatttggttg taattttagt tatctgttta aaaagtcata 1380
294 agattagtca ctggtaggaa ttaatctaaa cgtatttata tgcgtaatca ctgtttttag 1440
296 tctgtttcaa aacagtagat gttttatcta cattacgcac ttggaatacc aacatgacga 1500
298 atccctcctt cttaattaca aatttttagc atctaattta acttcaattc ctattataca 1560
300 aaattttaag ataatgcact atcaacacac tottaagttt gcttctaaag cttcagggtt 1620
302 gagatgtgta taagagacag ctgcattaat gaatcggcc aacgcggggg agaggcgggt 1680
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308 ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa ggccagggaac cgtaaaaagg 1860
310 ccgcgttgct ggcgtttttc cataggctcc gccccctga cgagcatcac aaaaatcgac 1920
312 gctcaagtca gaggtggcga aaccgcacag gactataaag ataccaggcg tttccccctg 1980
314 gaagctccct cgtgcgctct cctgttccga ccctgccgct taccggatac ctgtccgctt 2040
316 ttctcccttc gggaagcgtg gcgctttctc atagctcacg ctgtaggtat ctgagttcgg 2100
318 tgtaggtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct 2160
320 gcgccttata cggtaactat cgtcttgagt ccaaccgggt aagacacgac ttatcgccac 2220
322 tggcagcagc cactggtaac aggattagca gacgaggtg ttagggcggg gctacagagt 2280
324 tcttgaagtg gtggcctaac tacggctaca ctagaaggac agtatttggt atctgcgctc 2340
326 tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc aaacaaacca 2400

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328 ccgctggttag cgggtggtttt tttgtttgca agcagcagat tacgcgcaga aaaaaaggat 2460
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332 gttaagggat tttggtcag agattatcaa aaaggatctt cacctagatc cttttaaatt 2580
334 aaaaatgaag ttttaaata atctaaagta tatatgagta aacttgggtc gacagttacc 2640
336 aatgcttaat cagtgaggca cctatctcag cgatctgtct atttcgttca tccatagttg 2700
338 cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct ggccccagtg 2760
340 ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca ataaaccagc 2820
342 cagccggaag ggccgagcgc agaagtggc ctgcaacttt atccgcctcc atccagtcta 2880
344 ttaattggtg ccgggaagct agagtaagta gttcgccagt taatagtttg cgcaacgttg 2940
346 ttgccattgc tacaggcatc gtggtgtcac gctcgtcgtt tggatatggt tcatcagct 3000
348 ccggttccca acgatcaagg cgagttacat gatcccccat gttgtgcaaa aaagcggtta 3060
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352 ttatggcagc actgcataat tctcttactg tcatgccatc cgtaagatgc ttttctgtga 3180
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358 ttggaaaacg ttcttcgggg cgaaaactct caaggatctt accgctgttg agatccagtt 3360
360 cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc accagcgttt 3420
362 ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaataagg gcgacacgga 3480
364 aatggtgaat actcatactc ttcttttttc aatattattg aagcatttat cagggttatt 3540
366 gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata ggggttccgc 3600
368 gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc atgacattaa 3660
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373 <210> SEQ ID NO: 13
374 <211> LENGTH: 3245
375 <212> TYPE: DNA
376 <213> ORGANISM: artificial sequence
378 <220> FEATURE:
379 <223> OTHER INFORMATION: plasmid pMOD (Cm)
381 <400> SEQUENCE: 13
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384 cagcttgtct gtaagcggat gccgggagca gacaagcccg tcagggcgcg tcagcgggtg 120
386 ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc 180
388 accatattgc gtgtgaaata ccgcacagat gcgtaaggag aaaataccgc atcagggcc 240
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396 gccagtcatt aggcctatct gacaattcct gaatagagtt cataaacaat cctgcatgat 480
398 aaccatcaca aacagaatga tgtacctgta aagatagcgg taaatatatt gaattacctt 540
400 tattaatgaa ttttctgtct gtaataatgg gtagaaggta attactatta ttattgatat 600
402 ttaagttaaa ccagtaaat gaagtccatg gaataataga aagagaaaaa gcattttcag 660
404 gtataggtgt tttgggaaac aatttccccg aaccattata tttctctaca tcagaaaggt 720
406 ataaatcata aaactctttg aagtcattct ttacaggagt ccaaatacca gagaatgttt 780
408 tagatacacc atcaaaaatt gtataaagtg gctctaactt atcccaataa cctaactctc 840
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412 aaataaatgc agggtaaaat ttatatcctt cttgttttat gtttcgggtat aaaacactaa 960
414 tatcaatttc tgtggttata ctaaaagtcg tttgttgggt caaataatga ttaaataatc 1020
416 cttttctctt ccaattgtct aaatcaattt tattaaagtt catttgatat gcctcctaaa 1080
418 tttttatcta aagtgaattt aggaggctta cttgtctgct ttcttcatta gaatcaatcc 1140
420 ttttttaaaa gtcaatatta ctgtaacaag cttcagggtt gagatgtgta taagagacag 1200

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 21,22,23,24

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:12

VERIFICATION SUMMARY

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L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0